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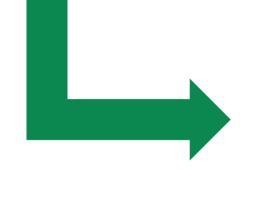
## How was done?

The oncohematology pharmacy team created a **visual guide** aimed to pharmacy personnel who do not routinely work with intravenous mixture preparations.

This guide includes instructions about parenteral cytotoxic drug preparation for chemotherapy regimens that should be immediately initiated.

# Why was it done?

Cytostatics are hazardous drugs that must be prepared under safe and sterile conditions. In some life-threatening situations, there is an urgent need to initiate chemotherapy immediately. However, not all hospitals have experienced personnel in safe-handling cytotoxic drugs for 24 hours and 7 days per week.



**OBJECTIVE: to create a consensual protocol** to be used when immediate start of chemotherapy is required and preparation must be done out of working hours of specialized pharmacy staff. A secondary objective is to confirm that non-experienced staff can prepare cytostatics safely and to guarantee their quality by following this protocol.

## How was it done?

#### **CIRCUIT AND STAGES**

**1. Urgent regimens were agreed with** clinicians:

- Fixed-dose intrapericardial cisplatin
- Intravenous carboplatin and etoposide - Intravenous cisplatin and etoposide

4. A visual guide with images of all the material and preparation steps (including labelling, packaging and protection measures), for each scheme, was developed and attached to a prescription form to be completed by the physician.



- Intravenous cyclophoshamide
- Fixed-dose intravenous daunorubicin

**2.** For schemes with different possible doses, fixed banding doses were agreed.

### **3.** The fixed doses were especified in a **predefined** prescription form.



**5.** The visual was associated with a material kit that contained personal protective equipment, expendable material, cytostatic vials and serum bags.

### **SIMULATED-BASE PATIENT SCENARIO**

The guide was distributed to pharmacy personnel external to preparation area accompanied by a training session. Selected trained workers were supervised while preparing the mentioned cytostatic drugs in a simulated-base patient scenario.

## What has been achieved?

All the cytostatic drugs were prepared correctly.
The personnel involved maintained all the specified protection



The maximum preparation time of **45 minutes** since was physician's prescription.

measures and reported feeling confident while cytostatic manipulation.

The guide proved to be useful to cover a possible urgent **chemotherapy** treatment outside the stipulated work schedule.

### What next?

**Re-training** in safe-handling of cytotoxic drugs should be ongoing with regular updates to ensure a proper follow-up of this guide. This work methodology could be **extrapolated to other pharmacy areas** with similar needs.

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